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National Climatic Data Center

151 Patton Avenue, Room 120

Asheville, NC 28801-5001

TELEPHONE: 828-271-4800

FAX: 828-271-4876

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A. MEAN MONTHLY SUMMARIZED DATA (see also E. CD-ROMs on back)**Price****1. Wind Energy Resource Atlas (through 1978)**

Twelve published volumes of wind energy statistics using data from approximately 975 locations are available from: National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, Phone 703-487-4650. Nineteen types of statistical tables for about 975 locations were produced in the analysis process but were not published, and are available photocopies from the NCDC. Information given includes the table number, station name, WBAN number, period of record, number of valid observations, anemometer height and reference location. (Call or write for details to order these paper copies)

2. Comparative Climatic Data (issued annually) Presents separate tables of monthly and annual average wind speed in MPH for about 300 U.S. sites. **\$ 6.00**

3. Climatic Atlas of the U.S. (1931-60) Presents maps of monthly and annual average: Prevailing direction, mean speed (MPH) and fastest mile of wind, (p.73); Surface wind roses, midseasonal resultant surface winds (pp. 75, 77). **\$ 12.00**

4. Local Climatological Data, Annual Summary (issued annually) (Each city, \$5.00, over 270 available - send for LCD Station List) Presents tables of monthly and annual measured average, resultant and fastest observed 1 min. wind speed for the current year, and monthly and annual mean and fastest mile or observed 1 min. speed for a long period, usually 15 to 30 years. Latest Annual CDROM only. **\$100.00**

ONLINE Price. **\$ 75.00**Set of earlier annual (1999 earliest limited stock available paper, 2000 oldest CDROM) **\$ 70.00****B. WIND ROSE TABULATIONS FOR INDIVIDUAL AIRPORTS (see also E. CD-ROMs on back)**

1. Airport Climatological Summaries (1965-74), per city (163 locations available) Presents monthly and annual tables of: Mean wind speed (Kts) and prevailing direction, Percent frequency of wind direction vs. wind speed (Kts). **\$ _____**

2. Wind-Ceiling-Visibility Data at Selected Airports (1948-78) (284 locations available) Presents annual-only wind direction vs. wind speed circular graphs and tabulations for six ceiling-visibility classes. Class 7 combines day/night and all ceiling-visibility categories into one all-weather, annual only wind rose tabulation. Explanatory pages: i-vi from Vol. 1 should be ordered. PER LOCATION (ALL 7 CLASSES): **\$ 20.00**
PER LOCATION (CLASS 7 ONLY): **\$ 6.00**

3. Summary of Hourly Observations (1951-60) (138 locations available) Presents monthly and annual tables of average data: Percent frequency of wind direction and speed (MPH); Percent frequency of hourly wind speed (MPH); and hourly sky cover. **\$ _____**

4. Unpublished Wind Rose Tabulations (various periods) Presents average numerical or percent frequency of occurrence of wind speed vs. direction, usually monthly and annual, in various formats for varying periods of record from 1929 to present. Sample formats are pictured in Index to Summarized Wind Data. Per location: **\$ 9.00**

5. Customized Wind Rose Tabulations**A. Federal Aviation Administration (FAA) Wind Rose for Airport Design (Diskette/Tabulations)**

Wind direction versus wind speed frequency tabulations are available on IBM PC compatible diskettes (specify size and density when ordering) which provide input into the Wind Analysis Program described in Appendix 11 of the FAA Advisory Circular "Airport Design" (AC 150/5300-13). The standard tabulation/diskette provides an overall summary of 36-point wind quadrant data for combined all-weather conditions. Wind speeds are reported in knots and use 9 standard FAA speed groups plus calm. In general, the most recent 10 years of hourly data will be summarized. Additional tabulations described under "Customized Tabulations" below provide diskette files in the FAA Airport Design software format. Up to 5 separate tabulations per location can be run for referenced cost. **\$210.00**

B. Customized Tabulations

NCDC can provide customized 16-point or 36-point wind rose tabulations of monthly, seasonal, and/or annual data; wind units in mph, knots, or meters/sec; and customer-specified a) ceiling-visibility thresholds, b) hours of operations, c) variety of present weather conditions, and d) speed classes (up to 9 classes with flexible ranges). Up to 5 separate tabulations per location can be run for referenced cost. **\$210.00**

C. SUMMARIZED EXTREME WIND SPEED DATA (see also E. CD-ROMs listed below)

1. Extreme Wind Speeds at 129 Stations in the Contiguous U.S. Presents measured fastest mile wind speed and direction from beginning of record (usually 1941) to 1977 for each year, and computed extreme wind speeds for return periods from 2 years to 1 million years. Tropical storm extreme winds were included for this study, but caution should be used when using this book in hurricane prone areas. **\$ _____**

2. Directional Extreme Wind Speed Data for the Design of Buildings and Other Structures Presents largest yearly fastest-mile wind speed data corresponding to winds blowing from each octant at 37 airport stations in the United States. (Also available from National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161.) **\$ _____**

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*TDD = Telecommunications Device for the Deaf

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3. Historical Extreme Winds in the US--Atlantic and Gulf of Mexico Area covered: 53 coastal locations from Maine to Texas. Tables present measured annual values from beginning of record (varies from 1875 to 1947) to 1979. Maps present computed annual 100-year return period fastest-mile wind speed at 10 and 30 meters above ground level. Tropical storm extreme winds were included in this study. (Also available from NTIS. For address see item C-2.) **\$**

4. Historical Extreme Winds in the US--Great Lakes and Adjacent Regions Area covered: 70 locations in 8 Great Lakes states plus Iowa. Tables present measured annual values from beginning of record (varies from 1875 to 1951) to 1979. Maps present computed annual 100-year return period fastest-mile winds at 10 & 30 meter heights above ground level. **\$ 10.50**

5. Unpublished Peak Wind Tabulations, per city: Presents actual measured values of the peak gust for each month of the year for varying periods of record from the 1940's to the 1980's. Locations available are generally worldwide U.S. military airports, but include a few large civil airports. Derived from USAF RUSSWO or U.S. Navy SMOS tabulations listed in Index to Summarized Wind Data. Per location (1-5 STATIONS) (APPROXIMATE PRICE): **\$ 4.00**

D. INDEXES (All Free)

1. Index to Summarized Wind Data (Sep 1977) Presents samples of 15 different Wind Rose tabulation formats available from the NCDC together with an index arranged alphabetically by state/city and format. Periods of record are listed for each tabulation. Contains no actual or average wind data.

2. National Wind Data Index--Final Report (Dec 1978) Presents sample of forms used to record original wind observations and a listing of periods of record available for actual manuscript wind observation data together with a list of anemometer heights and height-change dates. Contains no actual or average wind data.

3. Wind Energy Resource Information (WERIS) Index Presents samples of the 19 types of statistical tables and the period of record available for the approximately 975 stations. Contains no actual or average wind data

E. CD-ROMs

1. International Station Meteorological Climate Summary (Ver. 4.0) Data for approximately 7200 worldwide locations available on one CD-ROM. Data presented in U.S. Navy SMOS (Summary for Meteorological Observations-Surface) and USAF RUSSWO (Revised Uniform Summary of Surface Weather Observations) formats for National Weather Service, U.S. Navy, and U.S. Air Force Stations. Wind tabulations available include: 1) Hourly wind direction vs weather conditions (monthly/annual); 2) temperature versus wind direction (monthly, 5 degree bins, 8 compass points); 3) wind direction vs wind speed (3-hourly groupings by month, 10 speed classes, 8 to 16 compass points); and 24-hour peak gusts by year-month. Contains numerous other weather summaries. **\$175.00**

2. Global Upper Air Climatic Atlas A two-volume CD-ROM set using a 12 year (1980-91) 2.5 degree upper air data base. Presents upper air statistics for 15 vertical levels in the Northern and Southern Hemispheres for vector and scalar wind speeds and other elements. Provides contouring capability and vertical profiles for user-defined areas. Coverage is for 12 year period or individual year-months. **\$350.00**

Additional CD-ROMs listed on the CD-ROM Products price list.

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